

Global Flapping-Wing UAV Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flapping-Wing UAV market size is expected to reach \$ 348 million by 2032, rising at a market growth of 26.9% CAGR during the forecast period (2026-2032).

A flapping-wing UAV, also referred to as a flapping-wing drone, ornithopter drone or flapping-wing micro air vehicle (FWMAV), is an unmanned aircraft that generates lift and propulsion primarily through periodic wing flapping, often combined with wing pitching, twisting, deformation or differential actuation for attitude control. These aircraft are generally inspired by birds, insects or bats and typically integrate a wing-actuation mechanism, flexible wings, flight-control electronics, communication and navigation systems, an energy source and optional mission payloads. Compared with conventional fixed-wing and rotary-wing UAVs, flapping-wing UAVs may provide lower acoustic signatures, enhanced biomimicry, high maneuverability, safer interaction with nearby objects and improved operation in confined environments. Bird-shaped aircraft that rely primarily on propellers are excluded from this definition.

The global flapping-wing UAV market remains an early-stage and highly fragmented niche within the wider drone industry. Current revenue comes from four main areas: defense and security development programs, research and educational platforms, industrial wildlife-management systems, and consumer or recreational ornithopters. Standardized mass production remains limited, and many technologically advanced systems are still prototypes, experimental platforms or project-based products rather than mature commercial UAV fleets.

North America is an important technology and application market, supported by defense-funded micro-air-vehicle research, robotics development and commercial wildlife-management deployments. Europe has the strongest concentration of identifiable

specialist commercial companies.

Asia-Pacific is expected to be the fastest-growing region, supported by China's UAV supply chain, consumer-electronics manufacturing, defense research and Japan's robotics capabilities. China already participates through consumer flapping-wing products and military or academic development programs.

The principal growth drivers are increasing demand for low-noise and visually discreet surveillance platforms, defense investment in micro and nano UAVs, growing interest in biologically inspired robotics, expansion of wildlife-management applications, and demand for safer drones in indoor or human-proximate environments. Soft flapping wings eliminate exposed high-speed propellers and can tolerate minor collisions better than conventional multicopters, which is advantageous for education, entertainment and confined-space operations.

Advances in lightweight composites, miniature brushless motors, lithium batteries, embedded processors, optical positioning, ultra-wideband localization and AI-based flight control are also improving commercial feasibility. Recent research shows continued progress in onboard autonomous flight, lightweight localization, wing flexibility and aerodynamic efficiency.

This report studies the global Flapping-Wing UAV production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flapping-Wing UAV and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Flapping-Wing UAV that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flapping-Wing UAV total production and demand, 2021-2032, (K Units)

Global Flapping-Wing UAV total production value, 2021-2032, (USD Million)

Global Flapping-Wing UAV production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Flapping-Wing UAV consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Flapping-Wing UAV domestic production, consumption, key domestic

manufacturers and share

Global Flapping-Wing UAV production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Flapping-Wing UAV production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Flapping-Wing UAV production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Flapping-Wing UAV market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hanvon Technology (Go Go Bird), AERIUM Analytics Inc., Flapper s.r.o., XTIM SAS?Bionic Bird?, OrniHobby?Protoseni?, Festo SE & Co. KG, Flygildi ehf., AeroVironment, Inc., Ornadyne, EagleSight Dynamics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Flapping-Wing UAV market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Flapping-Wing UAV Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flapping-Wing UAV Market, Segmentation by Type:

Bird-Like Flapping-Wing UAV

Insect-Like Flapping-Wing UAV

Other

Global Flapping-Wing UAV Market, Segmentation by Flight Capability:

Forward-Flight Type

Hover-Capable Type

Global Flapping-Wing UAV Market, Segmentation by Degree of Control and Autonomy:

Remotely Piloted Type

Semi-Autonomous Type

Fully Autonomous Type

Global Flapping-Wing UAV Market, Segmentation by Application:

Consumer and Education

Research and Development

Commercial and Industrial

Military and Defense

Companies Profiled:

Hanvon Technology (Go Go Bird)

AERIUM Analytics Inc.

Flapper s.r.o.

XTIM SAS?Bionic Bird?

OrniHobby?Protoseni?

Festo SE & Co. KG

Flygildi ehf.

AeroVironment, Inc.

Ornadyne

EagleSight Dynamics

Nakakita Seisakusho Co., Ltd.

Key Questions Answered:

1. How big is the global Flapping-Wing UAV market?
2. What is the demand of the global Flapping-Wing UAV market?
3. What is the year over year growth of the global Flapping-Wing UAV market?
4. What is the production and production value of the global Flapping-Wing UAV market?
5. Who are the key producers in the global Flapping-Wing UAV market?
6. What are the growth factors driving the market demand?

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